

INDEX TO VOLUME 8

Author Index

- ADAMS, P.J. *Paper on* 'The quality of aircraft maintenance', 87-95
- ASHPOLE, C. *Paper on* 'Quality control in automated food processing', 81
- AUSTIN, R.V. *Paper on* 'A corporate framework for quality', 13-16
- BOSWELL, D. *Communication on* 'Collection of reliability data on electronic components', 26
- BURGESS, N.T. *Paper on* 'The implications of quality-assurance policy for "one-off" high-hazard plants', 3-6. *Communication on* 'The implications of quality-assurance policy for "one-off" high-hazard plants', 44
- CAPLEN, R. *Communication on* 'Using the Weibull distribution to predict the reliability of parts when only small samples are available', 27
- CHAKRABORTY, S. *Paper on* 'Quality circles: their prospects in India', 107-109
- CHISHOLM, C.U. *Paper on* 'Quality assurance: a review of production practice', 55-60
- COURT, E. *Paper on* 'Identifying reliability needs in the design specification', 7-12
- COX, B. *Paper on* 'The role of the management accountant in quality costing', 82-84
- DANE, A.J. *Paper on* 'Quality costs as a management tool', 96-98
- DOWNE, P.G. *Paper on* 'A professional approach to quality assurance in the food industry', 52-54
- DUPREY, C.H. See Lockyer, K.G., Oakland, J.S. and Duprey, C.H.
- FREUND, R.A. and Trulli, H.B. *Paper on* 'Quality Assurance Review Technique', 17-22
- GIFFORD, A.F. *Paper on* 'The development and requirements of modern quality assurance', 68-72
- GLICHEV, A.V. *Paper on* 'The Soviet QC experience', 110-111
- HASHIM, M. *Paper on* 'The application of reliability concepts to the service industries', 63-66
- HUNT, J.D. *Communication on* 'Using the Weibull distribution to predict the reliability of parts when only small samples are available', 26
- KELLY, B.J. *Communication on* 'Using the Weibull distribution to predict the reliability of parts when only small samples are available', 27
- LOCKYER, K.G. *Communication on* 'Quality control in British manufacturing industry: a study', 72, 115
- LOCKYER, K.G., Oakland, J.S. and Duprey, C.H. *Paper on* 'Quality control in British manufacturing industry: a study', 39-44
- MASING, W.E. *Paper on* 'Human aspects of quality assurance', 35-38
- MATFIELD, F.S. *Communication on* 'Reliability monitoring of the prototype Advanced Passenger Train', 26
- MATFIELD, R.S. *Paper on* 'A method of evaluating the quality of a component based upon its attributes', 77-80
- NICHOLSON, S. *Paper on* 'Problems encountered in applying quality assurance to welded products', 45-51
- OAKLAND, J.S. See Lockyer, K.G., Oakland, J.S. and Duprey, C.H.
- SHERWIN, D.J. *Paper on* 'Calculation and modelling of availability and effectiveness of productive systems by matrix algebra', 103-106.
- Communication on* 'Collection of reliability data on electronic components', 26. *Communication on* 'Quality control in British manufacturing industry: a study', 72, 115
- SHIVAS, R.E. *Paper on* 'The IEEE 488 bus doth not an ATS make', 73-76
- THOMAS, C.J. *Communication on* 'The implications of quality-assurance policy for "one-off" high-hazard plants', 44
- TRULLI, H.B. See Freund, R.A. and Trulli, H.B.
- VIGNAUD, C. *Paper on* 'A computer-based system for monitoring the quality of manufacturing', 23-25
- WALLEY, D.M. *Communication on* 'Reliability monitoring of the prototype Advanced Passenger Train', 26
- WHITTINGHAM, P.R.B. *Paper on* 'Practical operator control', 99-102

Subject Index

- Acceptance/rejection decisions,
 consumer-goods industry 15
- Accountability,
 production practice 57
- Administration,
 consumer-goods industry 15
- Advanced Passenger Train,
 reliability monitoring 26
- Aircraft components,
 failure patterns 90
- Aircraft maintenance 87
 condition monitoring 89
 development of 87
 development of schedules 87
 Hard Time 89
 reliability 89
- Automatic test equipment (ATE)
 IEEE 488 bus 73
- Automatic test systems (ATS) 113
 IEEE 488 bus 73

- Automation
 - food processing 81
 - production practice 57
- Avionic systems 96
- Baby walker, testing 114
- 'Bath-tub curve' 89
- Branch manager,
 - consumer-goods industry 15
- British Standards,
 - quality costing 83
- Budgeting, long-term 82
- CAD/CAM, production practice 57
- Calibration procedures 49
- Calibration programmes 49
- Chemical industry, usage of SQC 41
- Communications,
 - design — shop-floor — customer 9
- Computers, continuous monitoring during manufacture 23
- Condition monitoring,
 - aircraft maintenance 89
- Consumer-goods industry,
 - quality management 13
- Cost factors 35
 - production practice 58
 - see also* Quality costing
- Cost studies in Britain 39
- Data centre, activities of 11
- Defect analysis matrix 101
- Defect prevention requirements 102
- Design, one-off high-technology plants 4
- Design criteria,
 - reliability controlling 8
- Design specification,
 - reliability needs in 7
- Documents
 - and change control 47
 - relevant to pressure vessels 5
 - reliability assessment 9
 - requirements 10
- Education and training requirements 35
- Electronic components,
 - reliability data 26
- Electronic games 113
- Engineering errors,
 - heavy-engineering supplier 5
- Failure mode and effects analysis 8
- Food industry, quality assurance 52
- Government institutions, reliability 65
- Hard Time, aircraft maintenance 89
- Heat treatment, high-hazard plants 4
- Heavy engineering,
 - quality factors 69
- Hidden function components 89
- Hierarchical models 11
- High-hazard plants,
 - quality-assurance policy 3, 44
- Human aspects
 - of quality assurance 35
 - production practice 58
- Human judgement,
 - production practice 59
- Human performance,
 - limits of 37
- IEEE 488 bus as standard control interface 73
- Incentives to improvement 52
- India
 - quality circles 107
 - quality control 108
 - relations at work 108
- Information capture,
 - continuous quality monitoring 23
- Information processing,
 - continuous quality monitoring 23
- Innovation, accelerating speed of 35
- Inspection
 - operator control 100
 - welded products 49
- Institute of Industrial Managers,
 - questionnaire sample 40
- Instrumentation, IEEE 488 bus interface 73
- Investment returns 35
- Japan
 - approach to quality 39
 - quality circles 37
- Japanese Industrial Standards (JIS) Certification Mark 39
- Keypoint cards 100, 102
- Legal requirement effects 41
- Management, production practice 57
- Management accountant in quality costing 82
- Manufacturing industry 115
 - quality control 72
- Manufacturing process
 - continuous quality monitoring 23
 - control of 10
 - quality control 39, 81
- Materials buying 56
- Materials traceability 56
- Matrix algebra, production systems 103
- Measurement problems 81
- Motivation
 - consumer-goods industry 16
 - in quality assurance 36
- Non-destructive testing
 - high-hazard plants 4
 - welded products 49
- One-off high-hazard plants 3, 44
- Operator control 99
 - feedback 100
 - quality circles 99
 - requirements of 99
- Operator quality rating numbers 100
- Operator quality record 101
- Organization, quality assurance 53
- Organization structure 46
- Personnel turnover effects 35
- Pharmaceutical industry,
 - quality control 43
- Planning, long-term 82
- Political service, reliability 65
- Pressure retaining components,
 - quality levels 78
- Pressure vessels, documents relevant to 5
- Product liability 56
- Production practice, quality assurance 55
- Production systems,
 - availability and effectiveness 103
- Project Surveillance in high-hazard plants 6
- Pygmalion effect 36
- Qualification requirements in quality assurance 35
- Quality
 - corporate framework for 13

- definition 55
- Japanese and Western approaches 39
- Quality assurance
 - aims of 96
 - computerized 60
 - critical aspects in production 56
 - definition 55
 - essential criteria 45
 - evolution of 96
 - food industry 52
 - functional structural model 70
 - historical background 55
 - human aspects 35
 - in perspective 50
 - one-off high-hazard plants 3, 44
 - organization 53
 - position and problems today 55
 - positive influence 97
 - production practice 55
 - standards development 45
 - standards implementation 46
 - systems development 69
 - welded products 45
- Quality Assurance Review Technique (QART) 17
 - basic elements 17
 - basic intent 17
 - example of 17
- Quality attributes 77
- Quality auditors 71
- Quality audits 115
 - as procurement activity 48
 - consumer-goods industry 15
 - external 48
 - internal 48
 - production practice 56
- Quality circles
 - implementation of 109
 - in India 107
 - Japan 37
 - merits of 107
 - operator control 99
 - overselling 16
 - prerequisites for success 107
 - production practice 59
 - what they are 107
- Quality confidence level 77
- Quality control
 - fabrication industry 68
 - food processing 81
 - in Russia 110
 - Indian industries 108
 - integrated products 110
 - manufacturing industry 39, 72, 115
 - manufacturing process 81
 - pharmaceutical industry 43
 - problems facing 81
 - toy industry 112
 - see also Statistical quality control
- Quality costing
 - British Standards 83
 - management accountant in 82
 - programmes 96
- Quality costs
 - elements of 97
 - requirements of 97
- Quality criteria, 18-point 69
- Quality evaluation based on attributes 77
- Quality function, consumer goods industry 13
- Quality levels 71
 - pressure retaining components 78
- Quality management
 - benefits of 16
 - consumer goods industry 13
- Quality planning 47
- Quality policy, consumer-goods industry 14
- Quality Venturi 70
- Railways, reliability management 64
- Records, requirements of 49
- Reliability
 - aircraft maintenance 89
 - concepts and techniques 63
 - correlation model 64
 - definition 63
 - design specification needs 7
 - developed countries 64
 - framework of concepts 64
 - future trends 66
 - government institutions 65
 - political service 65
 - railway service 64
 - road transport 65
 - sea transport 65
 - service industries 63
 - transport industry 64
- Reliability data, electronic components 26
- Reliability growth programme 77
- Reliability monitoring, Advanced Passenger Train 26
- Reliability Shakedown Test (RST) 97
- Road Transport, reliability 65
- Russia, integrated products QC system 110
- Sea transport, reliability 65
- Service industries
 - definition 63
 - reliability 63
- Simulation model, reliability needs 8
- Site construction,
 - high-hazard plants 4
- Specifications
 - consumer-goods industry 14
 - survey on existence of 40
- Standards
 - consumer-goods industry 14
 - development of 45
 - implementation of 46
 - national and international 56
 - quality assurance 69
 - welded products 45
- Statistical quality control (SQC) techniques 39, 99
 - perception of needs 43
 - usage of 41
- Subcontractors, production practice 57
- System improvement, consumer-goods industry 15
- Toy industry
 - electronic games 113
 - failures 114
 - operating toys 112
 - precision models 113
 - quality and safety aspects 112
 - recommendations 114
 - riding toys 112
 - soft toys 112
 - test programme 114
- Trade unions in India 108, 109
- Transport industry, reliability 64
- Weld procedure problems 49
- Welded products
 - inspection 49
 - non-destructive testing 49
 - quality assurance 45
 - standards development 45
 - standards implementation 46
- Welder qualification tests 49
- Welding, high-hazard plants 4
- Work-life quality effects 37
- Work-loyalty on assembly line 35